

Take Test: Quiz 4.7

Test Information

Description

Instructions

Multiple Attempts This test allows multiple attempts.

Force Completion This test can be saved and resumed later.

▼ Question Completion Status:

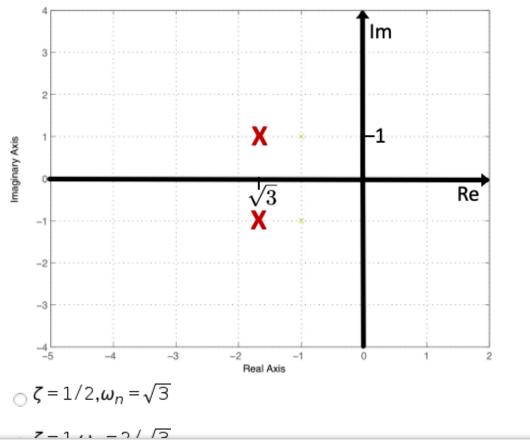
QUESTION 1

Se

1 points

Saved

Compute the damping ratio and natural frequency for the system whose poles and zeros are shown in the attached plot. Which of the following is correct?



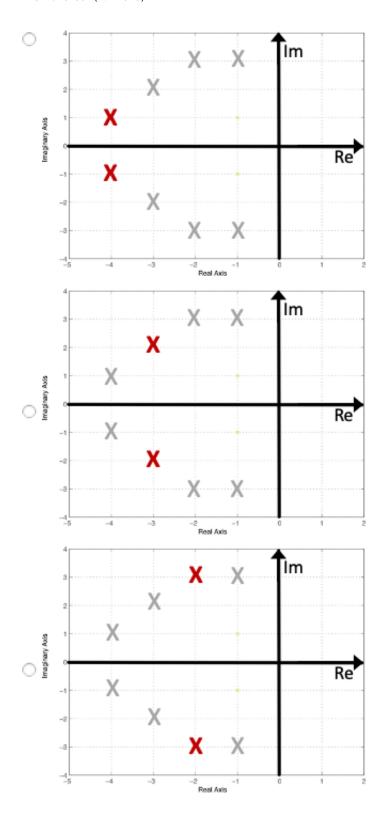
Click Save and Submit to save and submit. Click Save All Answers to save all answers.

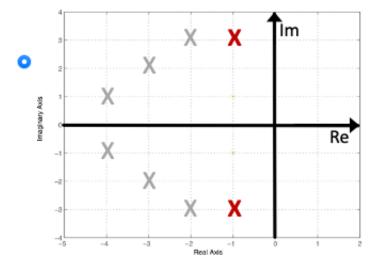
 $0 \zeta = 1/\sqrt{3}, \omega_n = 2$

QUESTION 2

1 points Saved

Which of the following pole pairs have a damping ratio closest to 1? (All four pole pairs are plotted to make comparisons easy, however, the pole pair under consideration is bold and red; others are grey.)



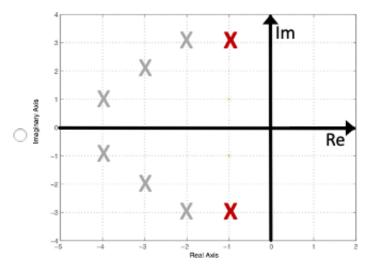


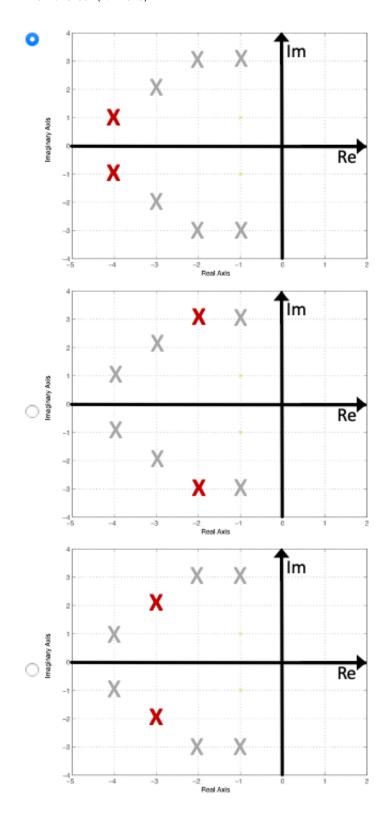
QUESTION 3

1 points

Saved

Which of the following pole pairs (color-coded) have the smallest damping ratio? (All 4 pole pairs are plotted to make comparisons easy, however, the pole pair under consideration is bold and red; others are grey.)





QUESTION 4

1 points

Saved

Which of the following pole pairs (color coded) have the highest natural frequency? (All four pole pairs are plotted to make comparisons easy, however, the pole pair under consideration is bold and red; others are grey.)

